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... 4 Faculty of Environmental Information, Keio University This paper improves  
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**MAUI Project**

... Next, the **Dynamic Network Configuration Protocol (DNCP)** is proposed in this dissertation.  
**DNCP** supports IP address allocation and **configuration** of subnets. ...  
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**RFC Archive**

... by RFC 1533) **RFC 1531 Dynamic Host Configuration ...** The PPP DECnet Phase IV Control **Protocol (DNCP)** (Replaces RFC ... like Framing RFC 2701 Nortel **Networks** Multi-link ...  
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**RFC 1377 (rfc1377) - The PPP OSI Network Layer Control Protocol ...**

... systems – **Protocol** identification in the **network** layer", ISO ... to ISO 9542 (PDAM 1  
- **Dynamic** Discovery of ... 1376 - The PPP DECnet Phase IV Control **Protocol (DNCP)**. ...  
Description: The PPP OSI **Network** Layer Control **Protocol** (OSINLCP). D. Katz. November 1992.  
Category: [Computers](#) > [Internet](#) > [RFCs](#) > 1301 - 1400  
[www.faqs.org/rfcs/rfc1377.html](http://www.faqs.org/rfcs/rfc1377.html) - 23k - [Cached](#) - [Similar pages](#)

**International Development Institute's Networking Acronyms**

... Identifier; DLL = **Dynamic** Link Library; " = **Dynamic** Load Libraries; ... = Downstream  
Neighbor Address; DNCC = Domain **Network** Control Center; **DNCP** = PPP DECnet ...  
[www.idicalif.com/scripts3/acro2.idc?teamkey=ACRO1](http://www.idicalif.com/scripts3/acro2.idc?teamkey=ACRO1) - 30k - [Cached](#) - [Similar pages](#)

**Network Communication Protocol Dictionary, Directory, Reference & ...**

... **DNCP**. ... Advanced Peer to Peer **Network**, IBM **network** architecture for **dynamic** routing  
across ... the operation of the routing and relaying functions of the **network** layer ...  
[www.javvin.com/dictionary.html](http://www.javvin.com/dictionary.html) - 101k - [Cached](#) - [Similar pages](#)

**Official Internet Protocol Standards**

... RMON-MIB, Remote **Network** Monitoring MIB **Protocol** Identifier Reference, ... DHCP, **Dynamic**  
Host **Configuration Protocol**, 2131. ... PPP-DNCP, The PPP DECnet Phase IV Control ...  
[www.rfc-editor.org/rfcxx00.html](http://www.rfc-editor.org/rfcxx00.html) - 101k - [Cached](#) - [Similar pages](#)

**Zvon - RFC 3600 [Internet Official Protocol Standards] - Current ...**

... PPP DECnet Phase IV Control **Protocol (DNCP)** 1762 draft ... prop \* Label Switching (MPLS)  
**Networks** — The Classless Static Route Option for **Dynamic** Host 3442 ...  
[www.zvon.org/tmRFC/RFC3600/Output/chapter3.html](http://www.zvon.org/tmRFC/RFC3600/Output/chapter3.html) - 101k - [Cached](#) - [Similar pages](#)

**Zvon - RFC 3300 [Internet Official Protocol Standards] - Current ...**

... DECnet Phase IV Control **Protocol (DNCP)** 1762 draft ... Device Class DHCP (**Dynamic** Host  
**Configuration** ... 3255 prop \* Synchronous Optical **Network**/Synchronous Digital ...  
[www.zvon.org/tmRFC/RFC3300/Output/chapter3.html](http://www.zvon.org/tmRFC/RFC3300/Output/chapter3.html) - 101k - [Cached](#) - [Similar pages](#)

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... **DNC**P PPP DECnet Phase IV Control Protocol (PPP ... Network, IBM network architecture for **dynamic** routing across ... and relaying functions of the network layer (ISO). ...

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IPSJ JOURNAL Abstract Vol.41 No.02 - 028

## Improvement of Dynamic Network Configuration Protocol and Its Evaluation

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※1 Graduate School of Media and Governance, Keio University

※2 Internet Systems Laboratory, Information & Network Technologies Laboratories, Sony Corp.

※3 Sony Computer Science Laboratories, Inc.

※4 Faculty of Environmental Information, Keio University

This paper improves Dynamic Network Configuration Protocol (DNCP) that manages IP addresses for networks. First, scalability is improved to enable DNCP operation in the wide area network. Networks are categorized into "Core" and "Leaf" parts, and new DNCP works differently in each part. Specially, "Hierarchical Grouping", which forms groups based on the logical relation between servers, is introduced and improves stability of DNCP. Then, the policing mechanism that keeps the rate of used IP addresses within a range is introduced for efficient IP address management. Next, the authentication mechanism is added to exclude requests from invalid hosts. This paper implements improved DNCP and evaluates it. Several experiments to check functions of DNCP were done in a small network, and other experiments to measure performance were done in a large network with simulation. Results show that processing speed was enough while achieving efficient IP address management. Last part of this paper considered application of DNCP to the Internet.

| [↑ Index Vol.41 No.02](#) |

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Chang, Jungwon

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**From:** Dodson, Nicole (ASRC)  
**Sent:** Tuesday, February 03, 2004 11:54 AM  
**To:** Chang, Jungwon  
**Subject:** FW: ILL ORDER STATUS

Please see response below. Thanks!

-----Original Message-----

**From:** Raffensperger, Linda  
**Sent:** Tuesday, February 03, 2004 11:51 AM  
**T :** Dodson, Nicole (ASRC)  
**Cc:** Hargrave, Sheena  
**Subject:** RE: ILL ORDER STATUS

Nicole,

If this is the article from the *Journal of Japan Society of Software Science*, then yes we received the request and it was ordered. The STAR number is 480483 and Sheena is handling the order. Please let the Examiner know that articles from some foreign titles can take up to 10 days to procure. This one is not available in the U.S. so may take that amount of time.

Thanks,  
Linda

-----Original Message-----

**From:** Dodson, Nicole (ASRC)  
**Sent:** Tuesday, February 03, 2004 8:22 AM  
**T :** STIC-ILL  
**Cc:** Raffensperger, Linda  
**Subject:** ILL ORDER STATUS

Good morning, all--

I need to check the status of an article request that I sent via fax on Friday from Examiner Jungwon Chang. She wants to know how close it is to being filled.

I actually faxed it from 2600, but it is for 2100, which I'm not sure whether I indicated that on the request.

Thanks

-----  
*Nicole P. Dodson*  
*Library Technician/ EIC 2100*  
*Crystal Park II, Room 4B40*  
*(703) 308-5171*  
*nicole.dodson@uspto.gov*